YAGODKE, Vladimir Nikolayevich; SHVEYTSER, Ye.K., red.; MURASHOVA, V.A., tekhn. red.

Fig. 1 (1997) 1887 A STANTA OF THE STATE HERE WITH THE SHIP HAT THE BRAIN THE HINDER HERE HERE AND A CONTRACT OF THE STATE OF THE STATE

[Production of relative surplus value; comments on the fourth section of the first volume of Karl Marx's "Capital."] Proizvodstvo otnositel'noi pribavochnoi stoimosti; kommentarii k
IV otdelu I toma "Kapitala" K Marksa. Moskva, Gos.izd-vo
"Vysshaia shkola," 1961. 60 p. (MIRA 15:2)
(Economics)

MANSIL'YA, Anastasio; SHVEYTSER, Ye.K., red.; GOROKHOVA, S.S., tekhn.

i is a state on a salada di salada anni saladini ng isaladini ng isalada na isalada na isalada na isalada na i

[The process of the accumulation of capital; comments to the seventh section of the first volume of Karl Marx's "Capital"] Protsess nakopleniia kapitala; kommentarii k 7-mu otdelu pervogo toma "Kapitala" K.Marksa. Hoskva, Gos. izd-vo "Vysshaia vogo toma "Kapitala" K.Marksa. Hoskva, Gos. izd-vo "Vysshaia (MIRA 15:3) shkola," 1961. 85 p. (Capital)

BIYUNE, Izrail' Grigor'yevich, prof.[deceased]; POLYANSKIY, F.Ya., prof., red.; SHVETTSER, Ye.K., red.; GRIGORCHUK, L.A., tekhm. red

[History of economic theory] Istoriia ekonomicheskikh uchenii; ocherki teorii. Pod red. F.IA.Polianskogo. Moskva, Gos.izd-vo ocherki teorii. Pod red. F.IA.Polianskogo. (MIRA 15:2)

"Vysshaia shkola," 1961. 266 p. (Economics)

RAZDORSKIY, Grigoriy Ivanovich; SHVEYTSER, Ye.K., red.; MURASHOVA, V.A., tekhn.red.

[Commodity production and money under capitalism] Tovarnoe proizvodstvo i den'gi pri kapitalizme. Moskva, Gos.izd-vo proizvodstvo ishkola, 1962. 62 p.

(Kconomics)

ZAYTSEV, Rostislav L'vovich; SEMENKOV, Vladimir Nikanorovich; SHVEYTSER, Ye.K., red.; YEZHOVA, L.L., tekhn. red. [Transformation of socialist labor into communist labor. The transition to the communist principle of distribution according to needs Pererastanie sotsialisticheskogo truda v kommunisticheskii trud. Perekhod k kommunisticheskomu printsipu raspredeleniia po potrebnostiam. Moskva, Vysshaia shkola, 1962. 57 p. (MIRA 16:2)

shaia shkola, 1962. 57 p. (Labor and laboring classes)

SHEKHOVTSOV, Aleksey Vladimirovich; SHVEYTSER, Ye.K., red.; GOROKHOVA,
S.S., tekhn.red.

[Marxian theory of commodity fetishism] Marksova teoriia
tovarnogo fetishizma. Moskva, Gos.izd-vo "Vysshaia shkola,"
(MIRA 15:5)
1962. 67 p.

(Economics)

BUTYSIN, Andrey Yakovlevich; SHVEYTSER, Ye.K., red.; MURASHOVA, V.A., tekhn. red.

[The economic law of socialist accumulation] Ekonomicheskii

[The economic law of socialist accumulation] Ekonomic Roskie zakon sotsialisticheskogo nakopleniia. Koskva, Vysshaia zakon sotsialisticheskogo nakopleniia. Koskva, Vysshaia (MIRA 15:10) shkola, 1962. 93 p. (Capital)

KONNIK, Iosif Issakovich; SHVETTSER, Ye.K., red.; GARINA, T.D., tekhn. red.

[Money in a socialist society]Den'gi v sotsialisticheskom obshchestve. Moskva, Vysshaia shkola, 1962. 110 p. (MIRA 15:11)

(Money)

ALLAKHVERDYAN, D.A., prof.; AMINOV, A.M., doktor ekon. nauk; AGLAS,

M.S., prof.; D'YACHENKO, V.V., dots.; ZLOBIN, I.D., prof.;

KADYSHEV, L.A., dots.; KARNAUKHOVA, Ye.S., prof.; KOTOV, G.G.,

prof.; LEVITANUS, I.M., dots.; LIVSHITS, A.L., dots.; LYAPIN,

prof.; MAKAROVA, M.F., prof.; MASLOV, P.P., prof.;

A.P., prof.; MAKAROVA, M.F., SOROKIN, G.M.; STRUMILIN, S.G.,

SONIN, M.Ya., doktor ekon.nauk; SOROKIN, G.M.; STRUMILIN, S.G.,

akademik; TUMANOVA, L.V., dots.; TUROVTSEV, V.I., dots.;

figurnov, P.K., prof.; MOKHOVA, N.I., dots., red.; SHCHERBAKOVA,

V.V., dots., red.; SHVEYTSER, Ye.K., red.; MURASHOVA, V.A.,

tekkn. red.

[The economics of socialism]Politicheskaia ekonomiia sotsializma. Izd.2., perer. Moskva, Gos.izd-vo "Vysshaia shkola," (MIRA 16:3)

1. Chlen-korrespondent Akademii nauk SSSR (for Sorokin).
(Economics) (Communism)

MUKHAMETOV, Geta Sharafiyevich; SHVEYTSER, Ye.K., red.; GOROKHOVA, S.S., tekhn. red.

[Wages under capitalism]Zarabotnaia plata pri kapitalizme.

[Wages under capitalism]Zarabotnaia plata pri kapitalizme.

(MIRA 16:3)

(Wages)

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r to let the distribution let had not him being supposed

BORISOV, Ye.F., dots.; BREGEL', E.Ya., prof.; BUKH, Ye.M., dots.;

VASHENTSEVA, V.M., dots.; GOLEVA, Yu.P., kand. ekon. nauk;

COLEVA, A.P., kand. ekon. nauk; DEMOCHKIN, G.V., dots.;

DONABEDOV, G.T., kand. ekon. nauk; YERMOLOVICH, I.I., dots.;

KALYUZHNYY, V.M., dots.; KORNEYEVA, K.G., dots.; KUZNETSOVA,

KALYUZHNYY, V.M., dots.; KORNEYEVA, K.G., dots.; KUZNETSOVA,

A.S., prof.; MIROSHNICHENKO, V.S., dots.; MYASNIKOV, I.Ya.,

kand. ekon. nauk; PIKIN, A.S., dots.; SIDOROV, V.A.; SMIRNOV,

kand. ekon. nauk; KHARAKHASH'YAN, G.M., prof.;

A.D., dots.; SOLOV'YEVA, K.F., dots.; SOROKINA, I.F., dots.;

TARUNIN, A.F., kand. ekon. nauk; KHARAKHASH'YAN, G.M., prof.;

TARUNIN, A.F., kand. ekon. nauk; KHARAKHASH'YAN, G.M., prof.;

MENDEL'SON, A.S., red.; SHVENTSER, Ye.K., red.; ROTOVA, R.S.,

red.; GARINA, T.D., tekhn. red.

[Economics of socialism] Politicheskaia ekonomiia sotsializma. Moskva, Gos.izd-vo "Vysshaia shkola," 1963. 476 p. (MIRA 17:2)

MIROHOVA, bronislava L'vovna; SHVEYTSER, Ye.K., red.; COROKHOVA, S.S., tekhn. red.

[Froduction, turnover and consumption relationship during the large-scale building of communism] Vzaimodeistvie protizvodstva, obrashcheniia i potrebleniia v period razverizvodstva, obrashcheniia v period razverizvodstva, vysshaia shkola, nutogo stroitel'stva kommunizma. Moskva, Vysshaia shkola, 1963. 75 p. (Economics)

COUNTRY : USSR : Cultivated Plants. Industrial, Oleiferous, Sugar. CATEGORY ABS. JOUR. : RZhBiol., No. 23 1950. No. 104784 : Teran, I.S., Shviat, A. AUTHOR : Kirovograd State Agricultural Experiment Station. INST. : Breeding Castor Oil Plant. TITLE ORIG. PUB. : Kretkiye itogi raboty (Korovogradsk. gos. s.-kh. opytn. st.) 26 1931-1955 68. Vyp. 1, Kiyev, 1957, 131-136 : Breeding work on captor oil hean plant was resumed in 1946 ARSTRACT at the Ukrainian Scientific Research Station of Oleiferous Cultures situated at the northern border of the zone of easter bean cultivation. In this region, caster bean does not mature in all years. Spring frosts to -1° are destructive for sprouts and the first autumn frosts to -20, -30, -for adult plants. The fast maturing of the caster oil plant and non-dehiscence of its seed case are the most important characteristics in the breeding work. CARD: 1/2 

SHVIDCHENKO, K. polkovnik.

Morning inspection of a company. Voen.vest.36 no.1:44-47 157.

(Russia--Army--Inspection) (MIRA 10:2)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550410020-3"

BANKUZOV, A., gvardii general-mayor; BOLDYREV, N., polkovnik; PORTYANKO, D., polkovnik; KORMIL'TSEV, I., polkovnik; KUZNETSOV, A., polkovnik; VOLYKHIN, A., polkovnik; SHVIDCHENKO, K., polkovnik; PISAREV, G., polkovnik; NEYELOV, N., polkovnik; VERTELA, N., gvardii polkovnik; MURATOVA, A., polkovnik; NIKOLAYEV, A., polkovnik

COLUMN TO THE PROPERTY OF THE

We discuss projects of new Army regulations. Voen. vest. 38 no.7:2-9
J1 '58.

(Russia--Army--Regulations)

BLOSHENKO, M.G., polkovnik; GAVRIKOV, F.K., polkovnik; KIRIN, I.D., polkovnik; SHVIDCHENKO, K.Ye., polkovnik; LOSHCHILOV, A.K., podpolkovnik; KUBASOV, A.F., general-leytenant, red.; PETUKHOV, V.I., general-mayor, red.; REVENKO, P.M., general-mayor, red.; VIL-CHINSKIY, I.K., polkovnik, red.; MEDNIKOVA, A.N., tekhn.red.

[Training manual for young soldiers; second edition] Posobie po obucheniiu molodykh soldat. Izd.2, ispr. i dop. Moskva, Voen. izd-vo M-va obor. SSSR, 1959. 503 p. (MIRA 13:3) (Military education)

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SHVIDCHENKO, L.G.

Examination of the content of lipids in the blood of elderly and senile persons. Vop. geron. i geriat. 4:209-213 '65. (MIRA 18:5)

1. Institut gerontologii AMN SSSR, Kiyev.

Congulation of water by bentonite A L. Shrakthon (Chrant. Minotive Health, Kharkar) Greens 1 and 1931, No. 10 for of the 1931, No. 10 for of the 1931 of the 1931

SHV IDENKO, I.G.

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Antibacterial action of monomycin in experimental Proteus septicemia in white mice. Antibiotiki 10 no. 10:913-916 (MIRA 18:12)

l. Kafedra mikrobiologii (zav. - prof. S.I. Sherishorina) Saratovskogo mediusinskogo instituta. Submitted Dec. 28, 1964.

The erection of buildings. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1940. 310 p. (50-31099)

TA584.L45

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550410020-3"

SHVIDENKO, V.I.; AL'PEROVICH, S.Z., redaktor; PISARENKO, V.I., tekhnicheskiy redaktor.

and the state of t

[Selecting machinery for the installation of structural units]

Vybor mashin dlia montazha stroitel nykh konstruktsii. Kiev,

Gos. izd-vo tekhnicheskoi lit-ry USSR, 1953. 73 p. [Microfilm]

(Building machinery) (Cranes, derricks, etc.) (MLRA 7:12)

SHVIDENKO, V.I.; LEYRFREYD, Yu.M., professor, redaktor; DONSKOY, Ya.Ye., redaktor; ZAMARHOVSKIY, L.S., tekhnicheskiy redaktor;

[Complex mechanization of construction work] Kompleksnaia mekhanizatsiia stroitel'nykh rabot. [Khar'kov] Khar'kovskoe obl. otd-nie, 1955. 84 p. (MLRA 9:2)

(Construction industry)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550410020-3"

AL'PEROVICH, Semen Zinov'yevich, kandidat tekhnicheskikh nauk; CHECHIK,
Aron Abramovich, kandidat tekhnicheskikh nauk, dotsent; SHVIDERKO,
Valentin Iosifovich, kandidat tekhnicheskikh nauk, dotsent;
SHELKOVSKII, VOI'I Moiseyevich, inzhener; SHCHEPITOV, A.N., vedushchiy
redaktor; PATSALYUK, P.M., tekhnicheskiy redaktor

第二十名,其一种美国的基础,但在15年的基础的表现的,是是是有15年的基础的是是可以的是是一种,但是一种,是一种,是一种,是一种,是一种,是一种,是一种,是一种,

Brecting buildings of precast reinforced concrete] Montazh zdanii iz shornykh zhelezobetonnykh konstruktsii. Kiev. Gos. izd-vo tekhn. lit-ry USSR. 1956. 246 p. (MIRA 10:2) (Precast concrete consruction)

SHVIDENKO, V.I., dotsent, kand.tekhn.nauk, otv.red.; PASHCHINSKAYA, G.N., red.; SOLONICHENKO, A.G., tekhn.red.

[Mechanization of construction and road-brilding operations; proceedings of the conference of representations of institutions for higher learning] Voprosy mekhanizatsii stroitel nykh i dorozhnykh rabot; trudy Mezhvuzovskogo nauchnogo soveshchaniia, 29 oktiabria - 1 noiabria 1956 goda. Khar kov, Izd-vo Khar kovskogo ordena Trudovogo krasnogo znameni gos.univ. im. A.M. Gorkogo, 1958. 336 p. (MIRA 13:1)

1. Kharkov. Budivel'nyi instytut. 2. Khar'kovskiy inzhenernostroitel'nyy institut (for Shvidenke). (Building machinery) (Roal tradelyy)

LEYBFREY, Yuriy Markovich, prof.; SHVIDENKO, Valentin Iosifovich, prof.; ISAYEV, N.V., inzh., nauchnyy red.; YUDINA, L.A., red. izd-va; RUDAKOVA, N.I., tekhn. red.; RODIONOVA, V.M., tekhn.red.

[Assembly of structural elements] Montazh stroitel'nykh konstruktsii. Izd.2., perer. i dop. Moskva, Gosstroiizdat, 1962. 466 p. (MIRA 15:7)

(Building)

SHVILENKO, Valentin Icaifovich, prof.; MATOKHIN, Vladimir Pavlovich, dots., kand. tekhn. nauk; SMINTOV, Aleksey Mikhaylovich, dots., kand. tekhn.nauk; FOKOV, Rostislav Ivanovich, kand. tekhn. nauk; CHERNYSHEV, Sergey Fedorovich, dots.kand.tekhn. nauk; YAKIMENKO, L.I., red.

[Assembly of multistory industrial buildings] Montach mnogoetazhnykh promyshlennykh zdanii. Kharikov, Izd-vo Knarikovskogo univ., 1964. 142 p. (MTRA 18:3)

GIZOV, Vasiliy Nilolayevich, prof., doktor tekhnanau.;
RODENKO-MORCUN, Ivan Yakovlevich, dots., kanda tekhnanauk; TKHILADZE, Georgiy Rodionovich, inzh.; USENKO,
Vasiliy Mitrofanovich, kanda tekhnanauk; SHVIDENKO,
V.N., prof., retsenzent; DANILEVSKIY, A.S., inzh.,
retsenzent; KUPERSHMIDT, L., red.

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

[Technology of construction] Tekhnologiia stroitel'nogo proizvodstva. [By V.I.Sizov i dr. Moskva, Vysshaia shkola, 1964. 613 p. (MIRA 19:1)

SHVIDENKO, Ya. [Shvydenko, IA.]

Fire recovers oil. Znan. ta pratsia no.1:22-23 Ja '62.

(MIRA 15:1)

(Oil fields--Production methods)

SHVIDERRO Ya. [Shvydonko, IA.]

The whole world will visit here. Znan.ta pratsia no.4:3.4 ap 62 (MIRA 15:4)

(Moscow—Exhibitions)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550410020-3"

SHVIDKAYA, G. N.

6733. Karlik, Ye. M. i Shvidkaya, G. N. Proizvodstvo igrushek iz drevesnykh opilok sposobom goryachego pressovaniya. M., Koiz, 1954 132 s. s. Ill. 22 sm. 3.00 ekz. 4 r. 50 k. -- Bibliogr: s. 129.-- (55-1978) p 688.72 & (016.3)

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SO: Knizhnaya Letopis' No. 6, 1955

KOSMA, T.V.; SHYIDKIN, V.V. [Shyvdkin, V.V.]

Peculiarities of the development of deductions by young school children. Nauk.zap.Nauk.-dosl.inst.psykhol. 10:34-60 (MIRA 13:5)

(Reasoning(Psychology))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550410020-3"

AND THE PARTY AN

107-5-37/54

AUTHOR: Shwidkiy, I. (Krasnodar)

TITLE: An Antenna for the "Urozhay" Radio Station

(Antenna dlya radiostantsii "Urozhay")

PERIODICAL: Radio, 1956, Nr5, p. 48 (USSR)

ABSTRACT: A new simple duplex antenna suggested consisting of an L-type antenna or

a "slanted span" antenna up to 25 m long and a counterpoise under 5 m long. The station receiver is connected to the same antenna through a 10 to 30-pf capacitor. Reliable range is 50 km during the day, 25 km

during the night.

2 figs in the article.

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Card 1/1

SHYIDN

SHV IDKIY, V.V. [Shvydkyi, V.V.]

Some peculiarities in the understanding of the causal connections of physical phenomena by pupils of junior grades. Nauk. zap. Mauk.-dosl. inst. psykhol. 11:73-75 \*59. (NIRA 13:11)

1. Institut psikhologii, Eiyev. (Causation)

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Dykhanov, N. N., Shvidko, R. I. AUTHORS:

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75-1-25/26

TITLE:

The Quantitative Determination of Eusintomycin (Kolichest-

vennoye opredeleniye eusintomitsina)

PERIODICAL:

Zhurnal Analiticheskoy Khimii, 1958, Vol 13, Nr 1,

pp 148-149 (FSSR)

ABSTRACT:

Eusintomycin is the stearic acid ester of 1-paranitrophenyl--2-dichloroacetamido-propane-diole(1,3), which is also called sintomycin. It is obtained by the action of technical stearylchloride which contains free stearic acid, thionylchloride, hydrochloric acid and elementary sulfur as impurities, upon a solution of sintomycin in a mixture of dichloroethane and pyridine. In spite of a careful purification of the technical

eusintomycin thus produced small admixtures of mineral chlorides, elementary sulfur and free stearic acid are present in the pharmaceutical preparation. There are 2 methods for the quantitative determination of the eusintomycin-content of the pharmaceutical preparation: one of them consists in the determination of the free and the bond stearic acid, in the second method the nitro group of eusintomycin is reduced to

Card 1/4

The Quantitative Determination of Eusintomycin

75-1-25/26

the amino group with zinc and hydrochloric acid, this is then diazotized and the quantity of sodium nitrite consumed on that occasion is converted into the eusintomycin-content. Both methods are complicated and lengthy. For this reason the authors developed another quantitative method of determination of eusintomycin in the pharmaceutical preparation: Eusintomycin is first repeatedly extracted with water and the chloride in the aqueous solution determined by titration according to Volhard. Then eusintomycin is reduced with a Devarda alloy in an alcoholic soda lye. The organically bound chlorine is on that occasion converted into the alkali metal chloride and is, also according to Volhard, quantitatively determined together with the ionogeneously bound chlorine. The difference of the two determinations yields the chlorine-content of eusintomycin. From this the percentage content of eusintomycin in the pharmaceutical preparation can be determined. The quantities of the impurities can be determined according to known methods. During the elaboration of this method of determination it was found that stearic acid which is contained in the reduction products of eusintomycin disturbs the titration, because, as a surface-active substance, it promotes the formation

Card 2/4

The Quantitative Determination of Busintomycin

75-1-25/26

of stable suspensions of silver chloride and silver thiocyanate. In order to exclude this error, chloroform is added in titration. This brings about a rapid coagulation of the abovementioned silver salts, whereby a clarification of the solution to be titrated occurs. It was further noticed that colored reduction products of eusintomycin also disturb the titration. For its destruction hydrogen peroxide was added to the reaction solution. For the decomposition of the excess peroxide the authors used ferrosulfate. The test results showed that the reduction of eusintomycin with a Devarda alloy takes place quantitatively. Deviations in parallel tests did not exceed 1 %. In order to attain a complete reduction, 4 parts by weight of Devarda alloy on 1 part by weight of eisontomycin are necessary in the case of a reaction time of 30 minutes. This new method for the quantitative determination of eusintomycin as compared to the already known methods is distinguished by the fact that besides simplicity and shortness of the performance it is of a satisfactory accuracy. It can be successfully used for the production control of eusintomycin. Then follows an experimental part in which the exact course of the analysis is described.

Card 3/4

### CIA-RDP86-00513R001550410020-3 "APPROVED FOR RELEASE: 03/14/2001

The Quantitative Determination of Eusintomycin

75-1-25/26

There are 3 references, 1 of which is Slavic.

ASSOCIATION: The Moscow "Akrikhin' Pharmaceutical Chemicals Plant

(Moskovskiy khimfarmzavod "Akrikhin")

SUBMITTED:

September 17, 1956

AVAILABLE:

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Card 4/4

Eusintomycin - Determination 2. Eusintomycin -

Quantitative analysis

GAVRIKOV, N.A., kand.med nauk; LUK'YANOV, V.S.; SHVIDKOVSKIY, N.F.

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Experience gained in the operation of an interdistrict medical society. (MIRA 15:4) Zdrav, Ros. Feder. 6 no.4;32-33 Ap :62.

1. Iz Nauchno-meditsinskogo obshchestva pri Armavirskom gorodskom otdele zdravookhraneniya (zav. gorodskim otdelom zdravookhraneniya V.S.Kurochkin). (KRASNODAR KRAY--NEDICAL SOCIETIES)

GAVRIKOV, N.A., kand.med.nauk; SHVIDKOVSKIY, E.F. (Armavir)

Clinical aspects and diagnosis of primary tumors of the pleura. Klin.med. 40 no.6:147-151 Je '62. (MIRA 15:9)

l. Iz terapevticheskogo otdeleniya (zav. - kand.med.nauk N.A. Garvikov) Ob"yedinennoy bol'nitsy No.3 (glavnyy vrach L.I. Baskakov). (PLEURA-TUMORS)

GAVRIKOV, N.A., kand.med.nauk; KUROCHKIN, V.S.; LUK'YANOV, V.S.;
SHVIDKOVSKIY, N.F. (Armavir)

Formation and coordination of the activity of the individual
interdistrict scientific medical societies. Sov.zdrav. 22
(MIRA 16:4)

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no.4:103-104 '63.

A transference of the contraction of the contractio

(ARMAVIR-MEDICAL SOCIETIES)

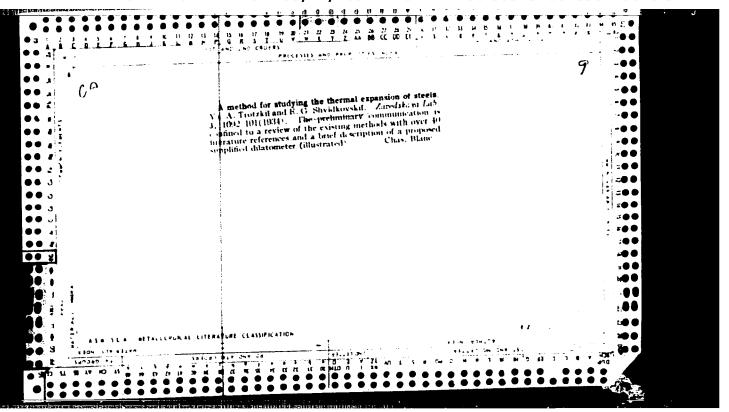
GAVRIROV, N.A., kand.med.nauk (Armavir); LUK'YANOV, V.S. (Armavir);
SHVIDKOVSKIY, N.F. (Armavir)

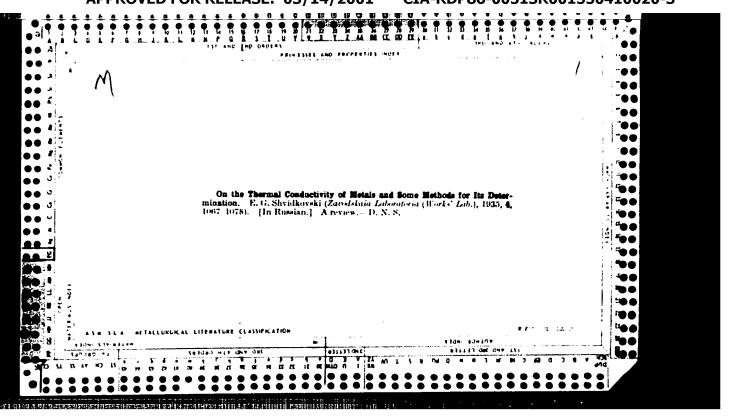
Acupuncture in the clinic for internal disease. Vrach.delo no.1:
145-146 Ja 263.

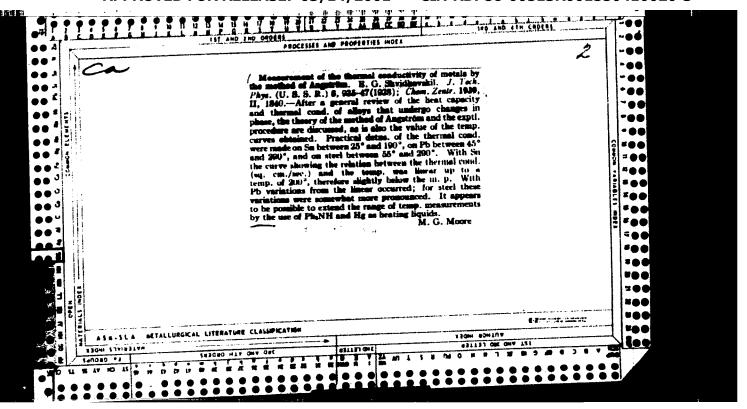
(ACUPUNCTURE)

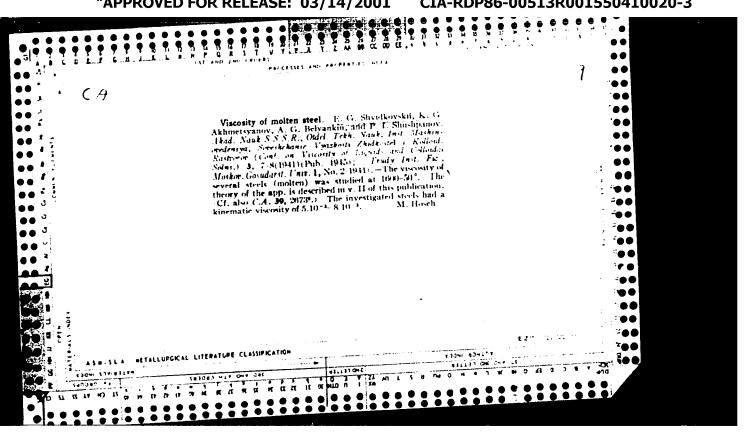
GAVRIKOV, N.A., kand.med.nauk (Armavir); SHVIDKOVSKIY, N.F. (Armavir); LUK'YANOV, V.S. (Armavir).

Segmentary ultraviolet irradiation of the reflexogenic zones in treating bronchial asthma. Vrach. delo no.1:147-148 Ja'64 (MIRA 17:3)

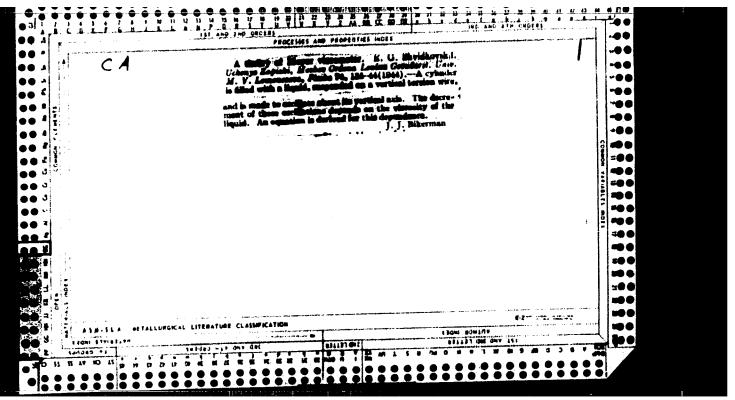


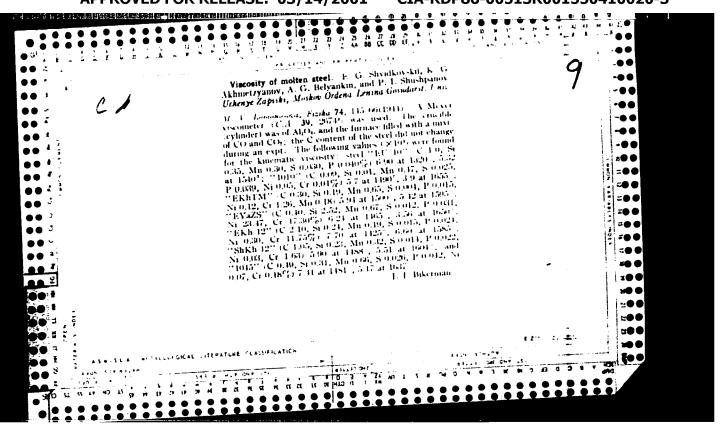


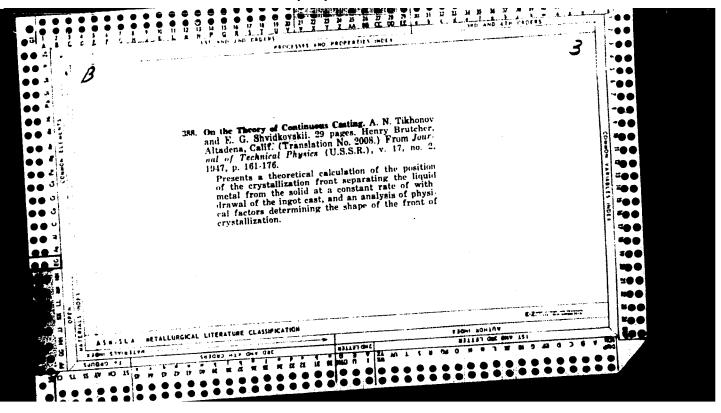




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1. BUTTY, A. . .; SPYIDRWSKIY, YE. C.

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TI SECTION OF THE PROPERTY OF STREET AND A SECTION OF THE PROPERTY OF THE PROP

- 2. USSR 600
- 4. Physics Philosophy
- 7. Law of interconnection between mass and energy; against the idealistic distortions in the interpretation of the rule E= EC2. Usp. fiz. nauk, 4°, No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

STATE SCIENTE, Ye. C.

USSR/Physics - Viscosity Lag

Sep 53

"The Viscosity of Supercooled Tin," Ye. G. Shvidkovskiy and G. I. Goryaga, Chair of Molecular and Thermal Phenomena

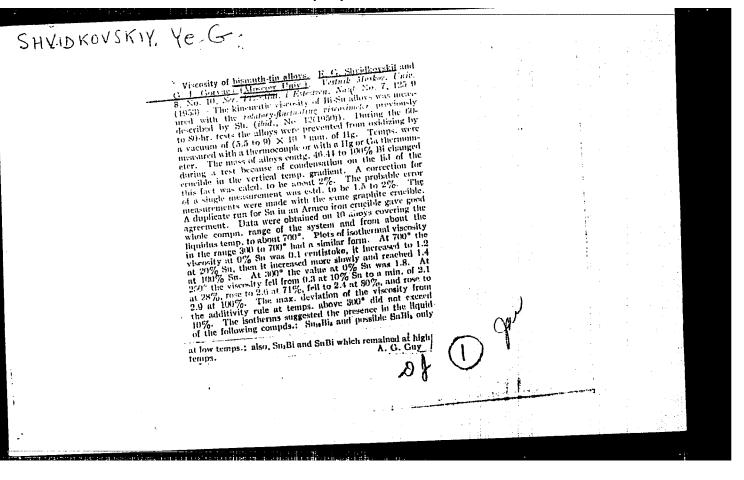
Vest Mos Univ, Ser Fizikomat i Yest Nauk, No 6, pp 63,64

Note that at low temps (200-300 $^{\circ}$ C) a remarkable divergence exists among the values of tin's viscosity obtained during the cooling process (800-200 C). Conclude that the supercooling of a metallic liquid is accompanied by a marked decrease

in its viscosity relative to the non-supercooled state and that the observed lag during the cooling process begins from 60-70°C to tin's temp of crystallization (around 300°C). State that x-ray analysis shows the supercooling phenomenon to be due to the development of liquid-phase domains with ordering according to the coordination type close to that observed in the solid phase.

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## CIA-RDP86-00513R001550410020-3 "APPROVED FOR RELEASE: 03/14/2001 The control of the co

SHVIDKOVSKIY, Ye. G.

USSR/Physics - Colid State Physics

Nov 53

"Conference on the Liquid State of Matter, Held 28-30 May 1953 at Kiev by the Academy of Sciences, Ukrainian ISR, and Fiev State University in T. G. Shevchenko, S. D. Ravikovich, G. F. Foshchina and !. F. Skryshevskiy

Usp Fiz Hauk, Vol 51, No 3, pp 393-405

Summarize reports by the following: V. I. Danilov, on scattering of x-rays in liquids; A. F. Skryshevskiy, on x-ray study of solns of KOH, NaOH, LiCl, and H.SO4; Ye. A. Foray-Koshita, on integral analysis of intensity curves; F. V. Dewagin, Is. Shvidkevskiy, C. Ya. Saroylov et al. on x-ray studies of liquid structure; h. Z. Golik, on characteristics of rolecular structure of liquids; I. V. Radchenko, on modeling of liquids; F. K. Shestakovich, on new iquid rodels and influence of central and dipole forces on close ordering; A. Z. Colik and his associates S. D. Ravikovich, A. V. Orishchenko, V. . . Solomko, and M. A. Eyndich, on viscosity and density of matter in the liquid state; V. F. Chulanovskiy and D. S. Karenetskaya, on the influence of molecules size and the intermolecular intensity on viscosity coeff; A. F. Frynza, on thermo-diffusion in binary systems; S. S. Erazovskiy, presence of grouping of identical atoms; A. R. Tegel', on relation between electrical properties and structure of liquids; M. F. Vuks, on light-dispersion method for studying liquids' structure.

USSR/Physics - Viscosity of molten metal

FD-1244

Card 1/1 : Pub. 129-6/25

Author : Shvidkovskiy, Ye. G., and Priss, L. S.

Title : Viscosity of molten metals and A. I. Bachinskiy's formula.

Periodical: Vest. Mosk. un., Ser. fizikomat. i yest. nauk, 9, No 1, 57-60, Feb 1954

Abstract: Gives the results of experiments on technically pure bismuth and lead.
Obtains graphs showing the kinematic viscosity, in centislokes, as a
function of temperature and relative density. Probable error was 3%.
Twelve references, including 3 foreign.

Institution : Chair of Molecular and Thermal Phenomena

Submitted : April 2, 1953

SHVIDKOVSKIY, Yevgeniy Georgiyevich; TKACHUK,S.G., redaktor; ZHABOTIN-SKIY,Ye.Ye., redaktor; AKHLAMOV,S.N., tekhnicheskiy redaktor

[Some problems in the viscosity of molten metals] Nekotorye voprosy viazkosti rasplavlennykh metallov. Moskva, Gos.izd-vo tekhniko-teoret. lit-ry, 1955. 206 p.

(Metals--Testing)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550410020-3"

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xectors of section of the section of

SHVIDKOVSKIY, Ye. G.

"The Influence of Insoluble Admixtures on the Viscosity of Metallic Liquids", a paper presented at the second conference on the Liquid State of Matter, Kiev, 30 May to 3 June 1955, Usp. Fiz. Nauk, April 1955

[Program in general physics; for the Physics Faculty] Programms po obshchei fizike (dlia fizicheskogo fakul'teta). 1956. 7 p.

1. Moskow.. Universitet.

(Physcis--Study and teaching)

SOV/124-58-4-4349

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr4, p94 (USSR)

AUTHORS: Goryaga, G. I., Shvidkovskiy, Ye.G.

TITLE: Viscosity Hysteresis in Molten Metals (Gisterezis vyazkosti rasplavlennykh metallov)

PERIODICAL: Vestn. Mosk. un-ta. Ser. matem., mekhan., astron., fiz., khimii, 1956, Nr 2, pp 71-76

ABSTRACT: An investigation of the viscosity of tin-bismuth alloy and pure tin was performed with the aid of a rotation-type viscosimeter. It was found that the viscosity of molten metals containing insoluble admixtures exhibits hysteresis. Molten metals that have been purified of such admixtures by filtration in vacuum do not exhibit any viscosity hysteresis. The explanation of these phenomena is given as follows: The insoluble admixtures retard the process of re-coordination of the atoms (and, consequently, the change of viscosity) during which the atoms pass from the low-temperature packing to the hightemperature packing.

1. Liquid metals--Viscosity 2. Hysteresis--Theory Card 1/13. Liquid metals--Temperature factors A. I. Golubev

SHYIDELVSKIY, VE, G

USSR/Statistical Physics - Liquids

D-8

Abs Jour

: Referat Zhur - Fizika, No 5, 1957, 11518

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Author

: Goryaga, G.I., Shvidkovskiy, Ye.G.

Inst Title

: Influence of Insoluble Impurities on the Viscosity of

Molten Metals Upon Supercooling.

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Orig Pub

: Vestn. Mosk. un-ta, 1956, No 6, 33-37

Abstract

: The authors have previously observed (Referat Zhur Fizika, 1955, 8988), the "branching" of the curve for the temperature dependence of the viscosity of liquid tin, preceding the supercooling of the tin. This phenomenon was investigated in detail with tin and silicon. Particular attention was paid to the influence of the insoluble impurities contained in the specimens (oxides) and the removal upon purification on this effect. The results obtained permit the authors to suggest that even negligible impurities exert a delaying influence on the transformations of

Card 1/2

ALEKSEYEV, P.P.; BESYADOVSKIY, Ye.A.; GOLYSHEV, G.I.; IZAKOV, M.N.; KASATKIN, A.M.; KOKIN, G.A.; LIVSHCHITS, N.S.; MASANOVA, N.D.; SHVIDKOVSKIY, Ye.G.

Rocket exploration of the atmosphere. Meteor. i gidrol. no.8:3-13
Ag '57.

(MIRA 10:8)

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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550410020-3"

#### CIA-RDP86-00513R001550410020-3 "APPROVED FOR RELEASE: 03/14/2001

AUTHOR

DANILIN, B.S., MIKHNEVICH, V.V., REPNEV, A.I.,

SHVIDKOVSKIY, Ye.G.

i de la companya de l

TITLE

The Problem of Measuring Pressure and Density of the High Layers of the Atmosphere by Means of an Artificial Earth Samellite. (Zadacha izmereniya davleniya i plotnosti vysokikh sloyev atmosfery s pomoshch'y: 18kusstvennogo sputnika zemli.

Russian)

PERIODICAL

Uspekhi Fiz. Nauk 1957, Vol 63, Nr 1b, pp 205-225 (USSR)

ABSTRACT

By the instrument for the measuring of pressure and density the authors here understand a "manometer" of any suitable type (e.g. an ionization manometer or an omegotron). First the authors discuss the various models of the upper atmosphere. According to the authors the models MITRA and NICOLET are the nearest approach to reality. A table gives values of concentration and pressure which correspond to various models of the atmosphere. For further precise determination of these data tests with rokes and artificial satellites are suitable. In investigations of this kind various problems arise with regard to the interaction of a rapidly flying body and a diluted gas. The authors here study some of these problems. First the authors discuss the currents of particles, the momenta and the energies for the case of a homogeneous gas. From 200 km upward

CARD 1/5

specular reflection of the molecules (f = 0), the frontal presure on the surface of the satellite is  $P_{\perp} \sim 10^2 P_{\gamma}$ which means that it exceeds the pressure in the free atmosphere by two orders of magnitude. The tangential

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CARD 2/5

The Problem of Measuring Pressure and Density of the High Layers of the Atmosphere by Means of an Artificial Earth Satellits.

53-1b-14/18

Accommedation can be introduced: Like in the case of gas dynamics, a glowing dier, temperature of the gas whose pregressing power was consumed by its being heated. During interaction with the screen the energy car newly distribute over the degress of freedom. Part of the emergy of the progressive movement of the molecules car. transform itself into revolution energy and oscillation energy. The measurements of the coefficients of accommodation indicate the following: This coefficient depends on the kind of gas, on the temperature of the gas, on the temperature and the form of the surface and on the presence of admixtures. The accommodation coefficients of the degrees of freedom of the progressive motion and the freedom degrees of rotation are almost equal. The equilibrium pressure in the cavity of the manometer: The consideration of the properties of the free molecular flow carried out here permits the establishment of a relation between the pressure and the number of particles

CARD 3/5

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The Problem of Measuring Pressure and Density of the High Layers of the Atmosphere by Means of an Artificial Earth Satellite.

in the unit of volume in the carity of the manometer and the corresponding parameters of the surrounding medium. The authors here calculate the most simple case: The cavity of the manometer is connected with the atmosphere by a diaphragm with the radius r. The recordings of the manometer are rather difficult to interpret. If a rather long tube is placed between the cavity of the manometer and outside atmosphere, the pressure within the manometer must rise. Something is also said about the time constant of the manometer; under the test conditions assumed here it is of a magnitude of 2.10<sup>-3</sup> sec

Some problems connected with the measurement of pressure:
The authors here shortly discuss the following problems:
ionization by impact, "dissociation by impact", the
separation of gas, the electric charge of the satellite,
the knocking out of atoms from the surface of the satellite, the natural ionization of the atmosphere, photoemission. Finally the apparatus is discussed on the basis of
a drawing. Along the axis of a cylindrical lattice a thin

CARD 4/5

BUY IDKOVOKIŸ, YH. U.

"Viscosity Properties of Molten Metals."

Hydrodynamics of Molten Metals (Gidrodinamika rasplavlennykh metalov; trudy pervogo soveshchaniia po teorii liteinykh protsessov. Moskva, Izd-vo Akad. nauk SSSR, 1958, 257 pp.

(Proceedings of the First Conference on the Theory of Casting Processes)

Moscow State University imeni "M. V. Lomonosov"

A 1 - TO THE REPORT OF THE REPORT OF THE PARTY OF THE PAR

SHVIDKOVSKIY, Ye.C.

Some results of measurements of statosphere thermodynamic parameters by meteorological rockets. Isk.sput.2nn. no.2: 10-16 '58. (MIRA 12:5) (Atmosphere, Upper-Rocket observations)

24(6) AUTHORS:

sov/155-58-5-29/37 Shvidkovskiv. Ye.G., Durgaryan, A.A.,

Tyapunina, N.A.

"ITLE:

On the Internal Friction in Plastically Deformed Crystals

FERIODICAL:

Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye

nauki,1958,Nr 5,pp 172-176 (USSR)

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ABSTRACT:

The authors try to explain the maximum of internal friction observed in \_Ref 1,2,3\_7 for plastically deformed polycrystals of Cu and Cd . For this purpose they investigate in parallel the internal friction and the metallographic structure of Cu and Cd . The investigation of the crystals in the initial state in which the student A.A. Aldushin participated, showed a dependence of the internal friction on the granulation of the polycrystals. For plastically deformed crystals the internal friction increases with increasing degree of deformation, attains a maximum and then becomes smaller again. Position and magnitude of the maximum depend weakly on the initial state. Further experiments show that the maximum occurring for plastic deformations is neither connected with the variation of the granulation nor with the appearances

Card 1/2

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On the Internal Friction in Plastically Deformed Crystals

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SOV/155-58-5-29/37

on the surface of the crystal grains. It is conjectured that the formation of the maximum of internal friction for crystals which have been subjected before to a plastic deformation is probably connected with the formation of sliding strips in the crystal grains.

There are 6 figures, and 6 references, 2 of which are Soviet, 3 American, and 1 Japapnese.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova

(Moscow State University imeni M.V. Lomonosov)

SUBMITTED: June 28, 1958

Card 2/2

43

35

-18(7)- 18.8200

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AUTHORS:

Shvidkovskiy, Ye.G., Durgaryan, A.A.

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SOV/155-58-5-36/37

TITLE:

The Dependence of Internal Friction and of the Young Modulus

of Some Metals on the Temperature

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye

nauki,1958,Nr 5,pp 211 - 216 (USSR)

ABSTRACT:

According to the resonance method of Cooke [Ref 1] there was measured among others the dependence of internal friction and of the elasticity modulus on the temperature for Bi, Sn, Cd, Zn and Pb. The measurings were carried out under a pressure of 10<sup>-3</sup> mm mercury column. Limits of error for internal friction are ± 7 - 9%, for the E-modulus + 0.6%.

Change of temperature from - 60° C to shout + 350° C. The

Change of temperature from -  $60^{\circ}$  C to about +  $350^{\circ}$  C. The authors propose H to approximate the internal friction by

tg  $\delta$  = A(T)e RT in the range of high temperatures, where H is the actination energy, so that for weakly variable A(T)

the value ln tg & depends linearly on T which is actually

Card 1/2

36

18(7)

AUTHORS: Shvidkovskiy, Ye.G., Durgaryan, A.A. 80V/155-58-5-37/37

TITLE: The Dependence of Internal Friction and of the Elasticity

Modulus of Some Metals on the Amplitude of Oscillation and

on a Preceding Cold Treatment

PERIODICAL: Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye

nauki, 1958, Nr 5, pp 217-222 (USSR)

ABSTRACT: In the frequency interval 40 - 120 kHz there was measured

the dependence of internal friction and of the E-modulus on the temperature for mono- and polycrystals of Cd and Sn, for monocrystals of Bi, polycrystals of Zn and electrolytic Cu. All the measurements were carried out one hour after the preceding torsion. The dependences obtained are non-linear; for Cu there occur hysteresis phenomena; the variations of internal friction and of the E-modulus partial-

ly take place in opposite direction. Monocrystals as well as polycristals show maxima on the curve friction - temperature,

the position of which depends on the preceding plastic

Card 1/2

IVAHOVSKIY, Andrey Ivanovich; SHVIDKOVSKIY, Ye.G., doktor fiziko-matemat., red.; BLINNIKOV, L.V., red.; ZARKH, I.W., tekhn.red.

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[Theoretical And experimental study of sound-induced currents]
Teoreticheskoe i eksperimental noe izuchenie potokov, vyzvannykh
zvukom. Pod red. E.G.Shvidkovskogo. Moskva, Gidrometeor.izd-vo
(otdelenie), 1959. 113 p.
(Sound)

SHVIDKOVSKIY, Ye.G.

Rocket observations of the upper atmosphere. Trudy TSAO no.26:
65-73 '59. (MIRA 12:5)
(Atmosphere, Upper--Rocket observations)

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86706 \$/180/60/000/006/026/030 E021/E335

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AUTHORS: Rakova, N.K. and Shvidkovskiy, Ye.G. (Moscow)

TITLE: Crystallisation of Tin from the Supercooled State

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1960, No. 6, pp. 137 - 142

TEXT: Chemically pure tin was used in the investigation. The transition from the supercooled to the solid state was followed by measuring electrical resistance. It was measured by a method proposed by Goryaga (Ref. 1). A graphite crucible was filled with metal and placed in a glass flask connected to a vacuum pump (Fig. 1). The crucible was heated until the metal reached 20 - 30°C above the melting point. It was then slowly cooled. Two rates were employed - 0.4 and 6°C/min. Fig. 2a is a typical record of the resistance of the sample against time. There is first a sharp change in resistance corresponding to a high rate of increase in the mass of the solid phase, and then a very slow change in resistance to the value corresponding to a solid sample. The first period Card 1/3

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Crystallisation of Tin from the Supercooled State

red residuated to see from the little of the second of

lasted 0.5 - 3 seconds and the second period several minutes. Fig. 4 shows a similar curve for the change in resistance and also a curve for the change in temperature at the walls of the crucible. There was a sharp increase in temperature when the resistance dropped, corresponding to the initial crystallisation. From the results, the quantity of tin crystallising was calculated assuming that solidification began at the walls of the crucible. Fig. 2b shows M<sub>S</sub>/M against

time where  $M_s$  is the mass of solidified material and M is the total mass of the sample. The quantity crystallising in the first rapid period depends on the dimensions of the crucible. For a small crucible it was 12-47%, and for a large crucible 9-18% of the initial material. Fig. 7 shows the relation between the rate of solidification and time. Fig. 7a is for solidification in a graphite crucible and

Card 2/3

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Crystallisation of Tin from the Supercooled State

Fig. 7b in a similar crucible with a thermocouple immersed in the liquid metal. Curve 1 in Fig. 7a and Curve 2 in Fig. 7b relate to the same degree of initial supercooling. The mean rate of solidification in the first period dropped from 57 to 7% per second when a thermocouple was inserted. The reason for this change when a foreign body was added is not clear. There are 7 figures and 3 Soviet references.

SUBMITTED: August 26, 1960

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Card 3/3

# PHASE I BOOK EXPLOITATION SOV/5689

Tsentral'naya aerologicheskaya observatoriya.

Particular and the Company of the Carles and the Landau Company of the Carles and the Carles and

Trudy (Central Aerological Observatory. Transactions) No. 29. Moscow, Gidrometeoizdat, 1960. 86 p. 875 copies printed.

- Spensoring Agency: Glavnoye upravleniye gidrometeorologicheskoy sluzbby pri Sovete Ministrov SSSR.
- Ed. (Title page): Ye. G. Shvidkovskiy; Ed.: L. V. Blinnikov; Tech. Ed.: I. M. Zarkh.
- PURPOSE: The book is intended for physicists and meteorologists interested in rocket research of the atmosphere; it may also be useful to graduate students at universities and meteorological institutes.
- COVERAGE: This issue of the Transactions of the Central Aerological Observatory contains articles on the physical principles of rocket research of the atmosphere. Experimental methods

Card 1/3

Gentral Aerological Observatory

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used in rocket research of the atmosphere for meteorological purposes are analyzed. A brief description of some research rockets and the results obtained through their use are given. No personalities are mentioned. References follow individual articles.

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Shvidkovskiy, Ye. G. Meteorological Measurements By Means of Rockets Introduction 1. Research rockets 2. Theoretical premises 3. Measurements in the high layers of the atmosphere	5 9 16 33
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Central Aerological Observatory	sov/5689
I. Density gradients in tubes movi	ng in rarified gas 5
Repnev, A. I. Mass Selection in Tubes	Moving in Rarified Gas 66
Tokin, G. A. On Some Problems of the lof Gas in the Upper Atmosphere	Noneq <b>uilibrium State</b> 7 <sup>1</sup>
vanovskiy, A. I. On Currents Caused and Caused and Company Company Caused and	by Waves in Magneto-
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E111/E152

AUTHORS:

Glazov, V.M., Vertman, A.A., and Shvidkovskiy, Ye.G.

(Moscow)

TITLE:

Contribution to the summary of a discussion on the

structure and properties of liquid alloys

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh

nauk, Metallurgiya i toplivo, 1961, No.3, pp.104-115

TEXT: This article relates to one which appeared in No.6 of this journal, 1960. The authors state that a number of important questions remain to be clearly answered in the field of liquid-metal structures, particularly:1) for which systems and to what extent does the nature of particle interaction forces change during transition from the solid to the liquid state; 2) how is liquid structure linked with that of the original crystal and to what temperature does the link persist; 3) what is the structural unit of various liquids: 4) can a model of liquid structure be found as universal as the crystal lattice for solids; 5) to what extent can properties of the crystallized material be influenced in a given way through the liquid. What is needed is a theory of Card 1/7

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the liquid state embodying the molecular-kinetic theory of phase transition. In the present survey the authors set out to express some definite ideas on the required research programme. They have all made their own contributions (e.g. Ref. 10: Ye.G. Shvidkovskiy, N.N. Rakova, Tam Zhe. Ref. 12: V.M. Glazov, present journal, No. 6, 1960: Ref. 15: A.A. Vertman, A.M. Samarin, DAN SSSR, 1960, No. 2). Basic ideas (Ref. 1: Ya. I. Frenkel', Sobraniye trudov, Akademizdat, 1959. Ref. 2: N.N. Bogolyubov, Gostekhizdat, 1946. Ref. 3: I.Z. Fisher, Fizmatgiz, 1961), must be developed and extended. Diffraction methods (Ref. 14: T.A. Kontorova, present journal, 1961, No.3) must be developed and supplemented by new methods. Molecular vapours of liquids could give indications of liquid structural units and crystallization, especially of supercooled liquids, should also be studied. A systematic study is needed of electrical properties, which shed light both on changes in inter-particle forces and in structure on crystallization and An attempt to link the liquid coordination number and its change on heating with the electronic structure of the atom (Ref. 7: V.K. Grigorovich, Tam Zhe, 1960, No.6) is an interesting

supplement to earlier ideas which are in agreement with those of

Card 2/7

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Contribution to the summary of a ....  $\frac{5/180/61/000/003/010/012}{E111/E152}$ 

Bernal (Ref. 8: Scientific American, 1960, 203, No. 2). of directed inter-atomic bonds complicates the picture obtained. Three cases of liquid structure have been recognized (Ref. 3: and Ref. 9: I.Z. Fisher, present journal, 1960, No. 6) in an approach based on the idea of disturbance of the "original lattice" by thermal vibrations. A study of crystallization of supercooled tin by electrical conductivity measurement indicates the absence of any simple and obvious link between the number of crystallization centres formed and the final distance (Ref.10). Fruitful results, e.g. for germanium (Ref.12) have been obtained from a method based on changes of structure-sensitive properties with temperature. "Oriented fusion" is another view of the mechanism of metallization of the bond on fusion of germanium and silicon (Ref. 13: T.A. Kontorova, FTT, 1959, V.1, No.11, 1761. Ref.14). some evidence of increase in the coordination number of iron on heating (Ref. 15) and the possibility of polymorphic transformations has been considered (Ref. 16: Yu. A. Klyachko, present journal, 1960, No.6. Ref. 17: S.S. Urazovskiy, Izd. AN Ukr. SSR, 1956. Ref. 18: S.F. Khokhlov, present journal, 1960, No.6). An interesting approach is the comparison of experimentally determined heats of Card 3/7

Contribution to the summary of a .... 5/180/61/000/003/010/012 E111/E152

fusion of silicides with those calculated by an approximate equation for a type  $A_mB_n$  intermetallide (or from entropies of fusion) (Gel'd, P.V, Korshunov, V.A., and Petrushevskiy, M.S., Tam Zhe, Ref. 19: Gel'd, P.V., and Kocherov, P.V., Tam Zhe, Ref. 20). A "geometrical" approach to liquid structure based on structural crystallography has also been made (Ref. 18). Fedorov's theory of space groups can be used in connection with the possibility of formation of quasi-compounds with a structure which in general has no analogues in the solid state (e.g. Refs. 21: M. I. Shakhparonov, Tam Zhe, 1961, No.3: Ref.5: O.Ya. Samoylov, Izd. AN SSSR, 1957: Ref. 22: V.M. Glazov, S.N. Chizhevskaya, Tam Zhe, 1961, No. 3). Mass spectroscopy of vapours and study of condensate structures has shown the possibility of polyatomic formation in the vapour At near-liquidus (Ref. 23: G.M. Martynkevich, Tam Zhe, 1960, No.6). temperatures, the discussion showed, there is a close-order structure which is generally only qualitatively related to the phase diagram. For classifying liquids the energy of interparticle interaction or some related value should be used. Deviations from ideal-solution laws are a possible index (Ref. 24: Yesin, Yu.A., Sryvalin, I.T., Tam Zhe), as are composition versus Card 4/7

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Contribution to the summary of a .... S/180/61/000/003/010/012 E111/E152

property curves. The latter has been used for a system of classification (Ref. 25: F. Zauerval'd, Tam Zhe, 1961, No. 3) which is only partially successful, and Kurnakov's system (Ref. 26; N.S. Kurnakov, Izd. AN SSSR, 1940) is still useful. With a few exceptions (Ref. 27: Yu. A. Nekhendzi, N.G. Girshovich, present journal, 1961, No.3, and Ref.28: A. Grbek, Tam Zhe) the participants in the discussion preferred isotherms to lines of equal superheat. The structure of liquid eutectics was widely discussed, three main points of view being apparent. The first, originated by Danilov (Ref.4: V.I. Danilov, Izd.AN Ukr.SSR, 1956), regards melts of sutectic composition as containing a more or less developed chemical microheterogeneity (Ref. 29: A.S. Lashko, A.V. Romanova, Tam Zhe: Ref. 30: V.M. Glazov, A.A. Vertman, Izd. AB SSSR, 1960); experimental confirmation is available (Ref. 31: A.R. Regel', F. Gaybullayev, ZhTF, 1957, V.27, No.9: Ref.24). The average size of these eutectic colonies is considered to be  $10^3 - 10^4$  atoms (confirmed in Ref. 33; A.A. Vertman, A.M. Samarin, A.M. Yakobson, Tam Zhe) and their composition close to that of the corresponding solid solution (Ref. 32; G.M. Bartenev, present journal, 1961 No. 3). Card 5/7

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Contribution to the summary of a ....  $\frac{5/180/61/000/003/010/012}{E111/E152}$ 

Another view (Ref. 28) is based on that of Haveling (Geveling) that the liquid eutectic is a compound decomposing on crystallization. Chemical microheterogeneities, however, are not developed in all systems (Ref.30). Although the energy of mixing of liquid eutectics is almost always positive and thus favours the possibility of their development, this has been experimentally confirmed (e.g. Refs. 4, 29, 33 and 34; K.P. Bunin, Izv.AN SSSR, OTN, 1946, No.2). The view that negative deviations from ideality arise in all Me-Si systems (Ref. 24) is incorrect. There was comparatively little discussion of the structure of chemical compounds in the liquid state. The only clear fact on this is that strong bonds in the solid state tend to persist into the liquid: this has much experimental support (Refs. 25, 26, and Ref. 35; A. Roll', present journal, 1960 No.6: Ref.36: E. Gebhardt, Z. Metallkunde, 1955, 46, 90; 1955, 46, 669; Ref. 37; M.Becker, D.K. Belashchenko, present journal, 1960 No.6: Ref. 38: V.M. Glazov, Tam Zhe, 1960, No.5: Ref.39: A.A. Vertman, A.M. Samarin, Izd. AN SSSR, 1960: Ref. 40: A.A. Vertman, V.M. Glazov, present journal, 1959, No.1). From experimental data (Ref. 41: A.F. Skryshevskiy, Tam Zhe, 1960, No.6. Ref. 42: V.M. Glazov, A.A. Vertman, DAN SSSR. Card 6/7

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550410020-3"

22982

Contribution to the summary of a ... 5/180/61/000/003/010/012 E111/E152

1958, V.123, No.3. Ref.43: V.M. Glazov, D.A. Petrov, DAN SSSR, 1958, V.120, No.2. Ref.44: V.M. Glazov, D.A. Petrov, Izv. AN SSSR, OTN, 1958, No.4), Skryshevskiy concluded that chemical compounds melt without appreciable dissociation and remain fairly stable above the melting point. But this does not apply to Au-Sn (Ref.45: A.S. Lashko, DAN SSSR, 1959, V.125, No.1). Additional information is provided by surface-tension (Ref.19) and viscosity (Ref.46: V.N. Yeremenko, V.I. Nizhenko, Yu.V. Naydich, present journal, 1961, No.3) data. Interaction between elements in ternary alloys was also considered (Ref.48: V.M. Glazov, Izv. AN SSSR, 1960). The discussion showed the need for a thorough study of composition - property relationships.
There are 48 references: 46 Soviet, 1 German and 1 English. The English language reference reads as follows: Ref.8: J.D. Bernal, Scientific American, 1960, 203, No.2.

SUBMITTED: March 18, 1961

Card 7/7

SHVIDKOVSKIY, Ye. G.; TYAPUNINA, M. A.; PREDVODIYELEV, A. A.

TO THE SECOND SECTION OF THE PROPERTY OF THE P

"Dislocation Structure and Dislocation Multiplication in Cadmium Crystals" Paper Was submitted at the International Conference on Crystal Lattice Defects at Kyoto, 7-12 Sep '62

(for Shvidkovskiy, ye.g.) Inst. of Crystallography, Acad. of Sci., USSR, Leninsky Prospect 59, Moscow, V-333

SHVIDKOVSKIY, Ye. G.; ELLOZEROVA, E. P.; TYAPUNINA, N. A.

"Effect of High Frequency Vibrations on Dislocation Structure and Internal Friction In Lithium Fluoride Crystals" Paper was submitted at the Interantional Conference on Crystal Lattice Defects at Kyoto, 7-12 Sep '62

(for Shvidkovskiy, ye. g.) Inst. of Crystallography, Acad. of Sci. USSR, Leninsky Prospect 59, Moscow, V-333

# "APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001550410020-3

10.

Shvidkovsky, Ye.G.

Construction of the second second

S/169/63/000/003/006/042 D263/D307

AUTHORS:

Alekseyev, P.P., Besyadovskiy, Ye..., Biryukova, L.A., Golyshev, G.I., Ivanovskiy, A.I., Izakov, kili., Kokin, G.A., Kurilova, Yu.V., Livshits, K.S., Petrov, A.A., Rozhdestvenskiy, B.G., Solov'yev, N.V., Speranskiy, K.Ye., Khvostikov, I.A., Shvidkovskiy, Ye.G. and Sheherba, I.A.

TITLE:

Study of the upper layers of the atmosphere with the aid of meteorological rockets

PERIODICAL:

Referativnyy zhurnal, Gcofizika, no. 3, 1963, 28, abstract 3A166 (Tr. Vses. nauchm. Neteorol. sovesh-chaniya. T.I.L., Gidrometeoizdat, 1962, 91-103)

TEXT: In the present review-type article the authors give the results of studies carried out at Tsentralnaya aerologicheskaya observatoriya (Gentral Aerological Observatory) on atmospheric sounding with meteorological rockets. Measuring methods are described and the main points are given for obtaining such atmospheric character-

Card 1/2

S/169/63/000/003/006/00 D263/D307  Study of the upper layers S/169/63/000/003/006/00 D263/D307  istics as pressure, temperature, and wind. Certain results are en: data of seasonal temperature variations at heights up to 50 en: data of seasonal temperature variations at heights up to 50 en: data of seasonal temperature variations cases in the middle latitudes of the USSR and in polar regions, cases in the middle latitudes of the USSR and in polar regions, cases sudden warming up, characterization of temperature inversion below curves, a table characterizing the temperature inversion at a temperature of the circulation in the upper atmospheric layers. Information if the circulation in the upper atmospheric layers. (25 references the component of the gradient vind. (25 references the component of the gradient vind.)	giv- km of the ding	·
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Card 2/2		

S/003/62/000/006/001/001 B117/B110

AUTHORS:

Khrgian, A. Kh., Professor, Doctor of Geographical Sciences, Shvidkovskiy, Ye. G., Professor, Doctor of

Physics and Mathematics

TITLE:

Soviet scientists attending the Assembly of Geophysicists

PERIODICAL:

Vestnik vysshey shkoly, no. 6, 1962, 71-72

TEXT: The tasks and activities of the International Union of Geodesy and Geophysics and the participation of Soviet scientists in its work are briefly reported, especially their contributions to the Helsinki assembly at the summer 1960 which was attended by 1740 delegates from 60 countries. At the meetings of the Association for Meteorology and Physics of the Atmosphere, A. M. Obukhov (USSR) reported on the choice of a baroclinic model of the atmosphere best suited for predictions, and S. V. Nemchinov on the solution of the system of equations for forecasting. The only report dealing with the clouds in the troposphere was that by N. Sh. Bibilashvili (USSR) on the physics and dynamics of convective clouds.

Card 1/3

S/003/62/000/006/001/001 B117/B110

Soviet scientists...

The problem of atmospheric ozone formed an important item in the working program of the assembly. This was studied by the International Commission of Atmospheric Ozone on which A. Kh. Khrgian (MGU) served as delegate from the USSR. In the Symposium on the Geophysical Aspect of Cosmic Rays 17 reports were presented, including that by D. D. Krasil'nikov (Yakutskiy filial AN SSSR (Yakut Branch AS USSR) on temporary and latitudinal variations of cosmic rays, their anisotropy and relation to the cosmic activity of the sun, and the interplanetary magnetic field. In the Symposium on Chemical Processes and Radioactivity of the Atmosphere, Ye. S. Selezneva of the Glavnaya geofizicheskaya observatoriya (Main Geophysical Observatory) reported on the results of the chemical analysis of precipitations in the USSR. Her report was based on information from 13 USSR observatories set up specially for the International Geophysical Year. Soviet scientists made considerable contributions to the investigation of northern lights and related phenomena. The observations they had collected were used in reports by Western scientists. The next assembly is planned for 1963. Its main tasks will be an evaluation of the material collected during the past International Geophysical Year and preparations for the International Card 2/3

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Soviet scientists...

Year of the Calm sun. The USSR is expected to take part actively in the 1963 assembly.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M. V.

Lomonosova (Moscow State University imeni M. V. Lomonosov)

Card 3/3

THE TALE OF SERVICE RESIDENCE AND ADDRESS OF THE PROPERTY OF T			Ten keji kejil	errat i pierra	
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.A.; Durgaryan, A.A.	and di	locations	in		
CITLE: Relationship between the nonelastic properties of solids	marca carr	.4			
atola	4.0	43.00			
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Furnov, VUM, 1962, 255-258	atic	metal	crystal		
Turnov, VOM, 1902, 2002200  TOPIC TAGS: internal friction, crystal dislocation, plastic deformation and plastic deformation an	e crve	tal, crys	al defec	t,	
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ACCESSION NR: AT5009587

of dislocation relaxation and temperature relaxation, shows that both of these concepts do not contradict the experiment. Lithium fluoride crystals were then studied in order to gain further insight into the relative roles of these two mechanisms of relaxation. In this case, the study of internal friction in relation to preliminary deformation showed that in lithium fluoride crystals the internal friction and dislocation density remain constant in the region of elastic deformation. As in metals, the rise in internal friction begins simultaneously with the start of bulk volume plastic deformation. As the preliminary deformation is increased further, the rise in internal friction and dislocation density becomes parallel. Lithium fluoride samples subjected to x-ray bombardment before and after deformation were also studied, and the results are interpreted in terms of point defects. Orig. art. has: 5 figures, 8 formulas and 1 table.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University); Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED: 00

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SUB CODE: 53, MM

NO REF SOV: 000

OTHER: 000

5/070/62/007/003/023/026 E132/E460

Shvidkovskiy, Ye.G., Tyapunina, N.A., Belozerova, E.P. AUTHORS:

The influence of an electric field on the behaviour TITLE:

of charged dislocations

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PERIODICAL: Kristallografiya, v.7, no.3, 1962, 471-472

Crystals of LiF and NaCl were etched chemically in an TEXT: electric field of 0.3 kV/mm and also without a field and the etch The faces of the plates lying parallel to pits were compared. In the case of LiF the etch the electric field were examined. pits were drawn out and similar results were obtained for NaCl. In the latter case, a minimum of 2 kV/cm was found to be necessary The most likely explanation is that the to produce an effect. dislocations move under the influence of the field. 2 figures.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni

M.V.Lomonosova (Moscow State University imeni

M.V.Lomonosov)

September 17, 1961 SUBMITTED:

Card 1/1

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5/070/62/007/003/024/026 E132/E460

24.7560 AUTHORS:

Shvidkovskiy, Ye.G., Tyapunina, N.A., Belozerova, E.P.

TITLE:

The generation of dislocations during the vibration of

crystals of lithium fluoride and sodium chloride

PERIODICAL: Kristallografiya, v.7, no.3, 1962, 475-474

Crystals of LiF were oscillated mechanically as a double amplitude was in one case 2 x  $10^{-6}$  and in a second run 2.7 x  $10^{-4}$  which correspond to stresses of 0.02 and 2.7 kg/s TEXT: the limit of flow being 0.5 kg/mm<sup>2</sup>. The crystals were etched and examined for dislocations before and after treatment. Before oscillation the dislocation density was approximately  $10^{\frac{7}{4}}$  cm<sup>-2</sup>. In the case of the specimen oscillated below the limit of flow no new dislocations were observed but for the other specimen Similar results were new dislocations had been generated. obtained for crystals of NaCl. These are in agreement with the There are 2 figures. observations of other authors.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im.M.V.Lomonosova

(Moscow State University imeni M.V.Lomonosov)

SUBMITTED:

September 17, 1961

Card 1/1

IVANOVSKIY, A.I.; REPNEV, A.I.; SHVIDKOVSKIY, Ye.G.

Calculation of additional terms in hydrodynamic equations accounted for by photodissociation reactions and pair recombination of atoms with emission of a photon. Trudy TSAO no.46:16-33 '63. (MIRA 17:1)

BELOZEROVA, E.P.; TYAPUNINA, N.A.; SHVIDKOVSKIY, Ye.G.

Multiplication of dislocations in alkali halide crystals under the action of high-frequency vibration. Kristallografiia 8 no.2:232-237 Mr-Ap '63. (MIRA 17:8)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

L 12797-63 EWP(q)/ENT(m)/BDS AFFTC/ASD JD ACCESSION NR: AP3000773 S/0070/63/008/003/0405/0412

AUTHOR: Tyapunina, N. A.; Predvoditelev, A. A.; Marty\*nyuk, G. K.; Shvidkovskiy, Ye. G.

TITLE: Investigation of dislocation structure and the propagation of dislocations in cadmium crystals

SOURCE: Kristallografiya, v. 8, no. 3, 1963, 405-412

TOPIC TAGS: Frank-Read source, hexagonal crystals, Cd, dislocations, Burgers vector, slip band

ABSTRACT: Because the literature is unclear on how points are provided for pinning dislocations to supply a beginning for a Frank-Read source, the authors have undertaken an analysis of possible intersections and interactions of dislocations in hexagonal crystals. They have made experimental tests by selective etching to determine dislocations, and they conclude that hexagonal crystals have favorable conditions for the formation of points that pin dislocations during plastic deformation. They conclude further that the restraint on dislocations to move in planes of the prism or the second-order pyramid considerably exceeds the restraint on movement in the basel plane, which impedes transverse slipping. Thus, during plastic deformation in hexagonal crystals, dislocations apparently Card 1/2

#### CIA-RDP86-00513R001550410020-3 "APPROVED FOR RELEASE: 03/14/2001

L 12797-63 ACCESSION NR: AP3000773

occur chiefly by operation of a Frank-Read source, and this leads to the experimentally observed localization of slip bands. Orig. art. has: 4 figures, 3 formulas, and 2 tables.

ASSOCIATION: Moskovskiy gosudarstvenny\*y universitet im. M. V. Lomonosova (Moscow State University)

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SUBMITTED: 06Jul62

DATE ACQ: 21Jun63

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Card 2/2

SHVIDKOVSKIY, Ye.G.; MARTYNKEVICH, G.M.; MALYAROVA, G.V.

Andrayah dasini sa idmilikadi, mili dadi dadi dadi mili magali di dadi matani kasalar mata da 1888 da 1888 ga Barasa ga Barasa

Effect of the irradiation of indium by thermal neutrons on the molecular composition of its vapor. Dokl. AN SSSR 149 no.4: 816-817 Ap '63. (MIRA 16:3)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova i TSentral'naya aerologicheskaya observatoriya. Predstavleno akademikom Kondrat'yevym. (Metals, Effect of radiation on) (Neutrons) (Indium)